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APPLICANT : NIPPON STEEL CORP;

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TITLE : PRODUCTION OF MAGNESIUM ALLOY SHEET EXCELLENT IN PRESS FORMABILITY

ABSTRACT : PURPOSE: To obtain a magnesium alloy sheet having superior press formability by melting and casting a magnesium alloy containing specific percentages of rare earth metal, zirconium, and zinc and subjecting the resulting ingot to hot rolling and to warm rolling under specific conditions.

CONSTITUTION: An alloy, having a composition consisting of, by weight, 0.5-1.5% rare earth metal, 0.1-0.6% zirconium, 2.0-4.0% zinc, and the balance essentially magnesium, is melted and cast. The resulting ingot is hot-rolled and then warm-rolled at 180-230°C, preferably 180-200°C, at a total draft of 40-70%, preferably 40-60%. By this method, the magnesium alloy sheet excellent in press formability can be obtained without deteriorating the characteristics of magnesium alloy.

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